

5. (amended) Method, as set forth in claim 1, characterized in, that points, where coordinate of fixed end of cantilever and/or force of its deviation and/or its first or second derivatives according to coordinate of fixed cantilever's end, achieve threshold values, received, e.g., using results of previous scanning or measurement are chosen as points of control.

6. (amended) Method, as set forth in claim 1, characterized in, that construction of space distributions is carried out concerning coordinate of sample's surface.

8. (amended) Method, as set forth in claim 1, characterized in, that determination of parameters, using noted values of cantilever's deviation force and/or coordinates of its fixed end and/or derivatives of cantilever's deviation force of coordinate of its fixed end in a predetermined subset of points of control is carried out, taking into consideration values of indicated magnitudes in other subsets of points of control. -

17. (amended) Method, as set forth in claim 14, characterized in, that coordinates of limits of surface layers of sample (measured within approach or move apart), are determined relative to coordinate of surface, which is measured also within move apart or approach accordingly.